

## BNC M CLAMP for LMR100/RG174/RG316 Cable

P/N: AT3B1C-4C

### Product Feature:

- Connector Type : BNC
- Polarity : Standard
- Gender : Male/Plug
- Geometry : Straight
- Termination Style : Clamp
- Cable : LMR100/RG174/RG316
- Application : General Purpose/Telecom etc

The **BNC Male Clamp connector for LMR100, RG174, and RG316 cables** is a field-serviceable RF interface designed for thin, flexible coaxial lines. Unlike crimp versions, the clamp mechanism allows for **assembly without specialized crimping tools**, providing a **secure, reusable mechanical connection** with **excellent moisture resistance**. Featuring a gold-plated center contact and the standard bayonet coupling, it ensures **low signal loss and rapid mating**. These connectors are frequently utilized in **prototype development, laboratory testing, and field repairs for wireless communications, GPS systems, and specialized instrumentation**.



### Electrical Specifications

Parameter	Value	Unit
Characteristic Impedance	50	$\Omega$
Frequency Range	DC ~ 4	GHz
VSWR	$\leq 1.15$	@DC-2 GHz
	$\leq 1.30$	@2-4 GHz
Insertion Loss	$\leq 0.2$	@DC-4 GHz
Insulation Resistance	$\geq 5000$	M $\Omega$
Dielectric Withstanding Voltage	$\geq 1.5$	kVrms
Inner Conductor Resistance	$\leq 1.0$	m $\Omega$
Outer Conductor Resistance	$\leq 0.25$	m $\Omega$
Power Handling	300	W @1GHz
RF Leakage	$\leq -55$	dB @1GHz



## Technical Data Sheet

<b>Material &amp; Plating</b>		
<b>Component</b>	<b>Material</b>	<b>Plating</b>
Center Conductor	Phosphor Copper	Gold
Outer Conductor/Body	Brass	White Bronze
Back Nut	Annealed Copper	Tri-Alloy
Fastening Nut	Brass	Tri-Alloy
Dielectric	Teflon/PTFE	-
Gasket	Silicone rubber	-

<b>Mechanical &amp; Environmental Specifications</b>		
<b>Parameter</b>	<b>Value</b>	<b>Unit</b>
Durability (Matings)	≥ 500 min.	-
Contact Captivation	≥ 27	N
Coupling Nut Torque	7 - 28	Ncm
Coupling Nut Retention Force	≥ 450	N
Cable Type Compatibility	LMR100/RG174/RG316 Cables	-
Operating Temperature	-40 ~ 85	°C
Compliance	ROHS	-